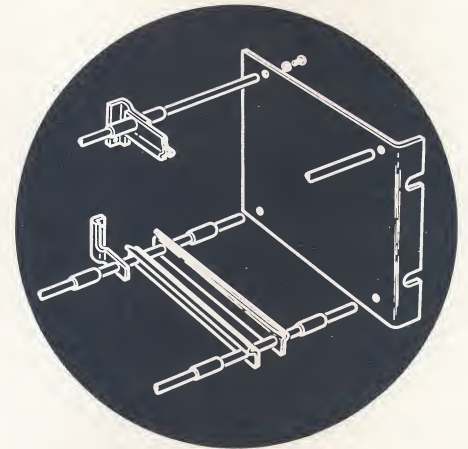
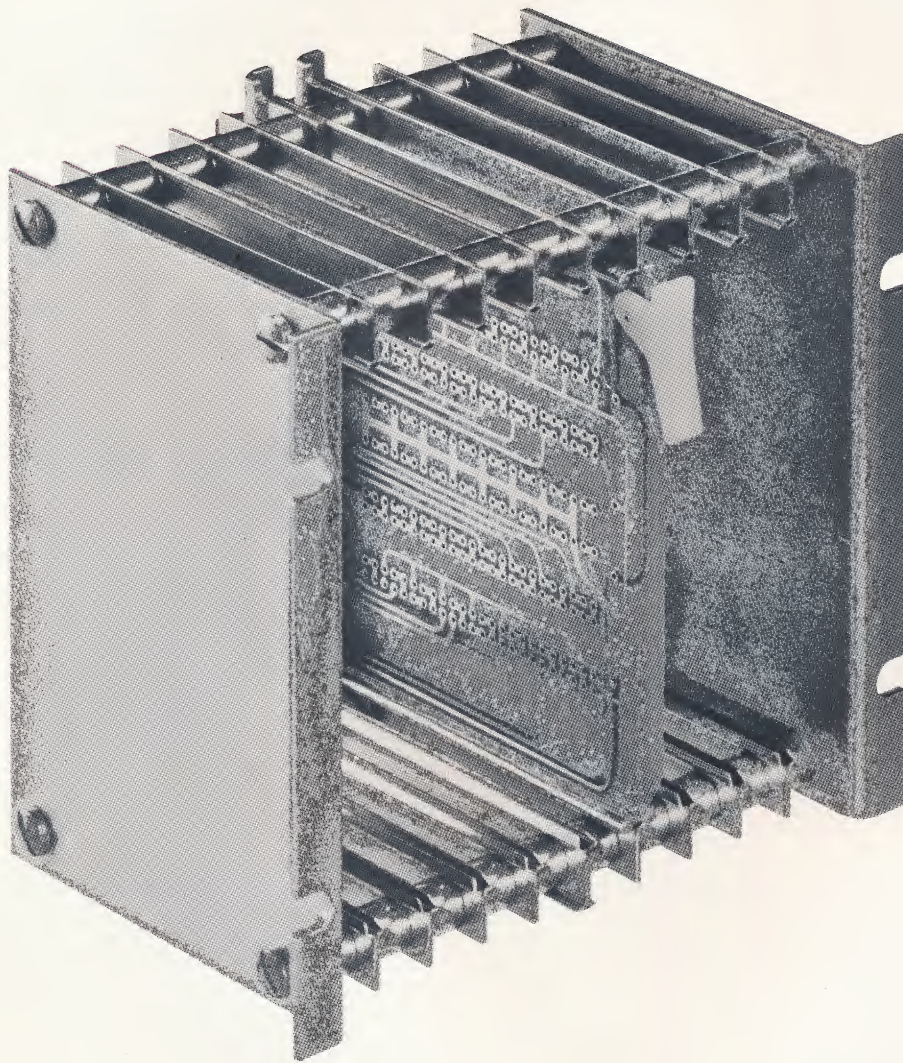


THE
BIRTCHER
Modular PCB Rack
SS
SERIES



Provides maximum
flexibility at
minimum cost

Assemble in your
plant or
order assembled

Available in all metal
or metal and plastic

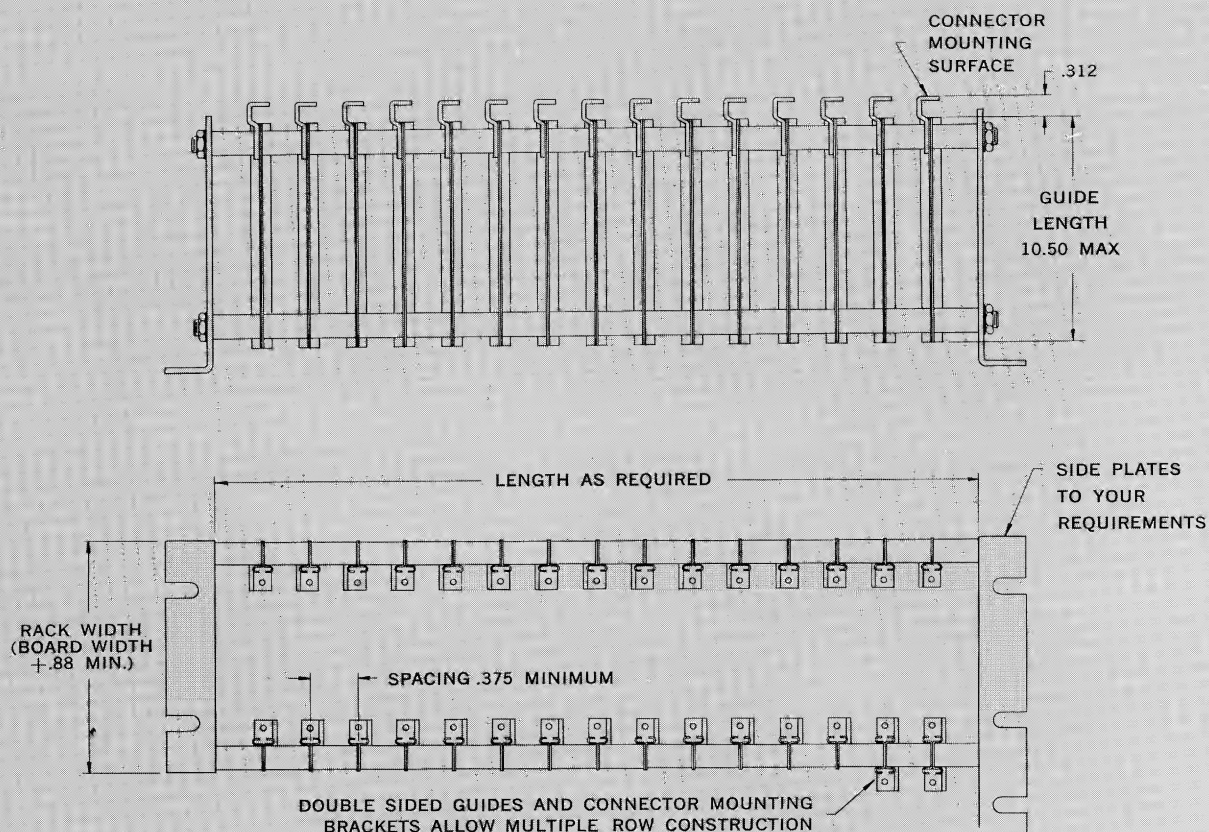
Insulated or non-insulated

Dimensioned to RETMA
standards or to
your special needs



To order; fill in easy-order form enclosed.

THE BIRTCHER CORPORATION Industrial Division
P. O. Box D / 745 Monterey Pass Road / Monterey Park, California 91755
Telephone 213-268-8584
TWX 910-321-3076



GENERAL DESCRIPTION

The Birtcher Modular PCB Rack, 55-Series affords a simple, economical solution to your Rack problems.

May be purchased completely assembled to your specifications, or if you prefer, order the component parts and assemble in your plant.

No special tools or equipment necessary to produce a rack to your exact requirements. Simply stack the spacers, connector brackets, and guides on the support rods, attach the side plates, and your Rack is complete.

FEATURES:

1. Our production methods allow selection of Materials and sizes to meet specific needs.
2. Design flexibility accommodates any card size and connector combination.
3. All metal construction provides maximum strength and reliability. Plastic and metal for greater economy.

CARD GUIDES: Insulated or Non-Insulated, Single or Double: (for multiple-row assembly) from 2 inches to 10½ inches in length, in ½-inch increments. Assembled width of either Insulated or Plain, Single or Double, is .31 allowing card spacing density of ⅜ inch ϕ mounting with approximately 1/16 inch air gap.

SPACERS: Available for card spacing from ⅜ inch minimum, in 1/16 inch increments, to any required length in either aluminum or plastic.

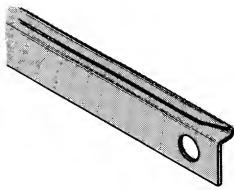
CONNECTOR MOUNTING BRACKETS AND SUPPORT RODS: Available in incremental sizes as indicated or to your specified requirements.

SIDE PLATES: Mounting to meet RETMA standard assembly.

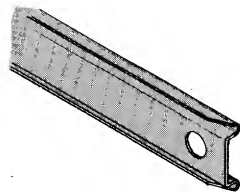
We welcome special applications to meet your specific requirements.

TO ORDER: A complete reproducible order blank is enclosed for your convenience.

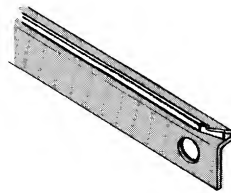
GUIDES



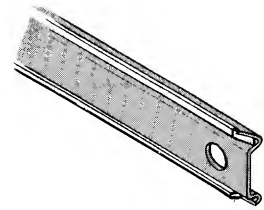
TYPE 75748-



TYPE 75749-

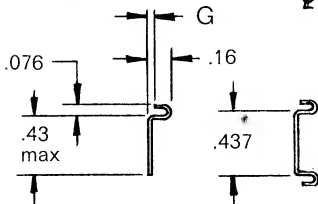
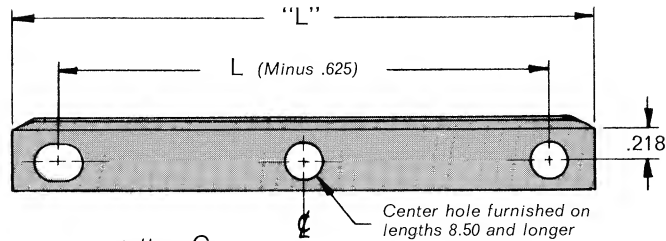


TYPE 5028-



TYPE 5029-

STANDARD



Dimensions of insulated guides are typical

Note: Alternate materials and intermediate lengths readily available.

BOARD THICKNESS		
DASH	THICKNESS	"G"
-2	1/16	.040
-3	3/32	.055

INSULATED

SPECIFICATIONS:

Guide is .025 thick C. R. Steel per QQ-S-698, cadmium plated per QQ-P-416, Type II, Class 2.
Insulating insert is A.B.S. Plastic per MIL-M-22544.

PART NUMBER CODE:

Type of guide
Dash number of board thickness
Guide length in decimal (10.50 max)
75748-2-4.50

EXAMPLE OF PART NUMBER:

5028-2-6.50 = single sided insulated guide, for use with 1/16 thick boards, 6.50 inches long.

Guides are standard in lengths of 2.00 through 10.50 inches, in .50 inch increments.

APPLICATION NOTE:

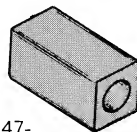
Four pieces required per card.

SPACERS



TYPE 75754-

ALUMINUM



TYPE 75747-

PLASTIC

APPLICATION NOTE: Determine spacer length as follows:

Front Spacer = Board spacing minus .050

Rear Spacer = Board spacing minus .112

Spacers are standard for board spacing of .375 through 1.000 in .062 increments.

Note: Alternate materials and intermediate lengths readily available.

SPECIFICATIONS:

75754 is .375 dia. aluminum alloy 6061-T6 per WW-T-789, chemical film finish per MIL-C-5541.

75747 is .375 square A.B.S. Plastic per MIL-M-22544, natural color (bone).

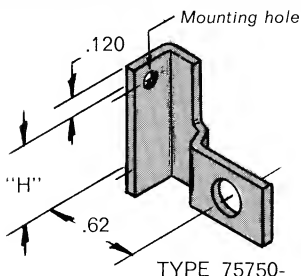
PART NUMBER CODE:

Type of spacer
Length of spacer in decimal.
75754-.450

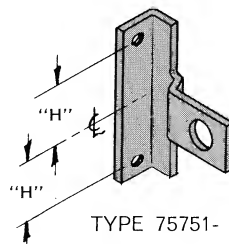
EXAMPLE OF PART NUMBER:

75754-.450 = aluminum spacer, .450 inch long.

CONNECTOR BRACKETS



SINGLE



DOUBLE

APPLICATION NOTE:

Determine "H" dimension as follows:

"H" = (.462 plus board width minus connector mtg. dim.) ÷ 2.

Note: Alternate materials readily available.

SPECIFICATIONS:

.062 thick, C. R. Steel per QQ-S-698, cadmium plated per QQ-P-416, Type II, Class 2.

PART NUMBER CODE:

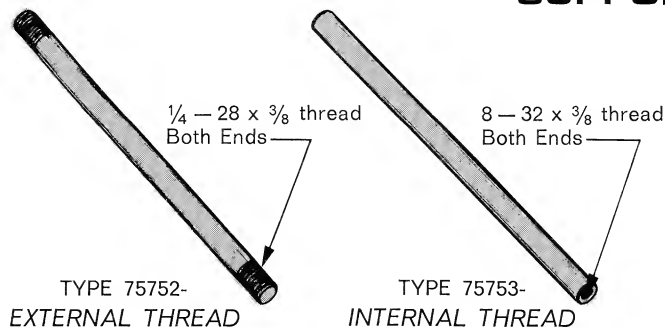
Type of bracket
Dash number of mounting hole
"H" dimension in decimal
75750-2-.715

EXAMPLE OF PART NUMBER:

75750-2-.715 = single sided bracket with a 4-40 threaded mtg. hole, H = .715 inch.

MOUNTING HOLE	
DASH	DESCRIPTION
-1	None
-2	4-40 thread
-3	125 dia. hole

SUPPORT RODS



Use type 75752 with aluminum spacers where ultimate strength is required.

Type 75753 is recommended for use with plastic spacers.

Note: Alternate materials and intermediate lengths readily available.

SPECIFICATIONS:

.250 dia. cold finished steel rod per QQ-S-633, cadmium plated per QQ-P-416, Type II, Class 2.

PART NUMBER CODE: (includes hardware)

Type of rod
Length in decimal
75752-17.62

EXAMPLE OF PART NO:

75753-16.97 = rod with internally threaded ends, 16.97 inches long.

APPLICATION NOTE: Determine length as follows:

Type 75752-L = dimension over assembly of guides, spacers and side plates plus .44

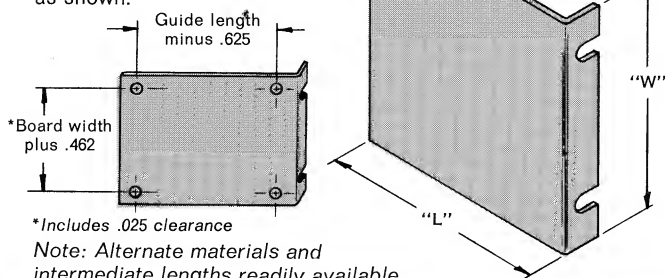
Type 75753-L = dimension over assembly of guides and spacers minus .060

SIDE PLATES

Side plates are fabricated to your individual requirements. For your usage in prototype construction, blank side plates as illustrated are available from stock in standard rack mounting panel heights.

APPLICATION NOTE:

Add support rod holes as shown.



SPECIFICATIONS:

Type 75762 = .059 thick C. R. Steel per QQ-S-698, cadmium plate per QQ-P-416, Type II, Class 2.

Type 75762A = .090 thick aluminum alloy per QQ-A-318, chemical film finish per MIL-C-5541.

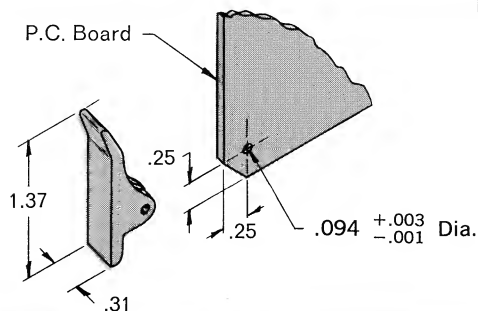
PART NUMBER CODE:

Type of side plate
Width in decimal
Length in decimal
75762 - W - L

EXAMPLE OF PART NO:

75762-5.22-6.00 = steel side plate, 5.22 inches wide, 6.00 inches long.

EXTRACTORS



SPECIFICATIONS:

A.B.S. Plastic material per MIL-M-22544 natural color (bone).

PART NUMBER CODE: (includes spring pin)

75764-2 = extractor for 1/16 thick boards

75764-3 = extractor for 3/32 thick boards

APPLICATION NOTE:

Modify P. C. Board as shown. Determine length of guide so as edge of guide and board are flush.

MARKING

Identification may be applied by stick-on foil decalcomania where aluminum spacers are used. Plastic spacers and extractors may be identified by stamping or screening, as required.



THE BIRTCHER CORPORATION
Industrial Division

P.O. Box D / 745 Monterey Pass Road
Monterey Park, California 91755
Phone 213 268-8584 TWX 910-321-3076

OFFSET CONNECTOR BRACKETS for THE BIRTCHEr 55 SERIES RACK To Mount: AMPHENOL, ELCO, METHODE and others

These Connector Brackets are available for Connectors of the Staked Contact or Plug and Receptacle type requiring the Mounting Holes be offset from the board centerline.

FOR .200 OFFSET

Such as: Elco 7001 Series
Elco 7008 Series*
Amphenol 133 Series
Methode 600 Series

L.H. Brkt= 75780-M-H
R.H. Brkt= 75781-
Dble Brkt= 75782-

*For Elco 7008 Series use
75777-, 75778-, 75779-

FOR .172 OFFSET

Elco 5007 Series

L.H. Brkt= 75783-M-H
R.H. Brkt= 75784-
Dble Brkt= 75785-

FOR .071 OFFSET

Elco 5006 Series

L.H. Brkt= 75794-
R.H. Brkt= 75795-
Dble Brkt= 75796-

SPECIFICATIONS:

.062 Thk C.R. Steel per QQ-S-698, Cadmium
Plated per QQ-P-416 Type II Class 2

PART NUMBER CODE:

Type of Brkt
Dash No. of Mtg Hole
'H' Dimension in Decimal
75780 - 2 - .715

MOUNTING HOLE	
Dash	Description
-1	None
-2	4-40 Thread
-3	.125 Dia. Hole

EXAMPLE OF PART NUMBER:

75780-2-.715 = L.H. Brkt for use with .200 Offset,
4-40 Threaded Mtg Hole, 'H'=.715 inch.

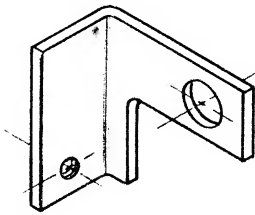
APPLICATION NOTE:

Use one L.H. and one R.H. Bracket for each Connector.
Determine 'H' as follows:

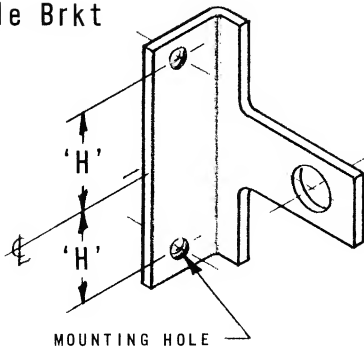
$$'H' = (.462 \text{ plus Board Width minus Conn.Mtg Dim.}) \div 2$$

THE BIRTCHEr CORPORATION
Industrial Division
745 Monterey Pass Road
Monterey Park, California 91754
Telephone: 213-268-8584
TWX: 910-321-3076

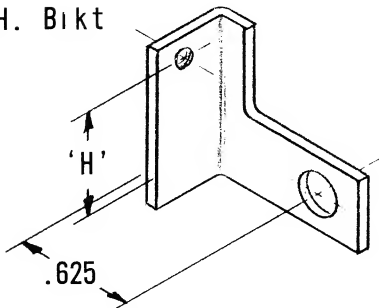
R.H. Brkt



Dble Brkt



L.H. Brkt



55 SERIES P.C.B. RACK

CUSTOMER INFORMATION

PREPARED BY

TITL

TELEPHONE

DATE _____

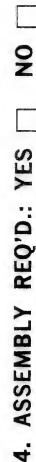
COMPANY

ADDRESS

CITY

STATE

Customer P/N



3. MATERIAL:

GUIDES — ☐ STANDARD ☐ INSULATED ☐
 SPACERS — ☐ ALUMINUM ☐ PLASTIC ☐
 SIDE PLATES — ☐ ALUMINUM ☐ C.R. STEEL ☐

(Alternate materials will be quoted on request.)

2. IF MULTIPLE ROW CONSTRUCTION -- NO. OF ROWS

1. SIZE OF P.C. BOARD:

THICK | X

WIDE

NOTES:

CP 10M 55-0 2/66 USA

SPECIAL INSTRUCTIONS

BILL OF MATERIAL

11	EXTRACTOR				
10	END SPACER				
9	END SPACER				
8	SPACER-REAR				
7	SPACER-FRONT				
6	GUIDE-DOUBLE				
5	GUIDE-SINGLE				
4	CONN. BRKT.-DOUBLE				
3	CONN. BRKT.-SINGLE				
2	SUPPORT ROD				
1	SIDE PLATE				
ITEM	DESCRIPTION		PART NO.		QTY. REQ'D.

Birtcher P/N

Thank You

T. Nelson
Syst. Consultant
Box 1546
Poughkeepsie, New York 12603

for your request concerning

55 Series PCB Rack

Attached is the material you requested. If you would like other Birtcher catalogs, or to be placed on our mailing list, please return the attached literature request card.

If you need additional information or design assistance please contact your Birtcher sales engineering representative whose name appears below. A list of Birtcher distributors is enclosed for your convenience.

Your Birtcher representative is:

I. A. Hotze Company, Inc.
112 DeWitt Street
Syracuse, New York 13203
Phone: 315-479-6641
TWX: 315-477-1127

Thank you for your interest.

Cordially,



Al Norris
Director of Marketing,
Industrial Division

THE BIRTCHER
CORPORATION

INDUSTRIAL DIVISION

745 SOUTH
MONTEREY PASS ROAD,
MONTEREY PARK,
CALIFORNIA

TELEPHONE 268-8584
(AREA CODE 213)

TWX 213 266-6814

RETENTION/COOLING
DEVICES FOR
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TRANSISTORS
AND
COMPONENTS —
SEMICONDUCTOR
TESTING
EQUIPMENT